Infosafe No™ 1CHKI Issue Date :August 2021 RE-ISSUED by CHEMSUPP

Product Name **POLYVINYL ALCOHOL**

Not classified as hazardous

1. Identification

GHS Product Identifier POLYVINYL ALCOHOL

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Molding powders, ceramics, cloth, leather, paper coatings, thickener and stabiliser, photosensitive films, intermediate for other polyvinyls, printing inks (glass), binder for cosmetic preparations, laminating adhesives, postage stamp adhesive, textile warp and yarn size, nonwoven fabrics and paper, paper coatings, grease-proofing paper, emulsifying agent, cements, mortars, imitation sponges and laboratory reagent.

Other Names

Name	Product Code
POLYVINYL ALCOHOL LR	PL032
Vinyl alcohol polymer	
PVA	
PVOH	

Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Information on Composition A water soluble synthetic polymer made by alcoholysis of polyvinyl acetate.

Ingredients

Name	CAS	Proportion
Polyvinyl alcohol	9002-89-5	100 %

4. First-aid measures

Inhalation Remove victim from exposure to fresh air. If rapid recovery does not occur, obtain medical attention.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Complete combustion will emit carbon dioxide and water when heated to decomposition. Incomplete combustion gives in addition carbon monoxide and oxidation products, including organic acids (formic acid), aldehydes (acetaldehyde, crontonaldehyde), acetone, and alcohol.
Specific Methods	Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Decomposition Temp.	> 149 °C
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Handling	Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. If ingested, seek medical advice immediately and show the container or the label. Avoid prolonged or repeated exposure. Use with adequate ventilation. Minimize dust generation and accumulation. Wash hands before eating. Protect against physical damage. Protect from light and heat. Keep away from heat and all sources of ignition. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapours may be present could cause a flash fire or explosion due to electrostatic discharge. Empty containers pose a fire risk, evaporate the residue under a fume hood. Keep away from incompatibles such as oxidizing agents, metals, acids, alkalis.
Conditions for safe storage, including any incompatibilities	Keep in a tightly closed container, stored in a cool, dry, ventilated area away from incompatible substances (oxidizing agents). Protect against physical damage. Keep well closed and protected from light and moisture (water absorption can cause caking). Keep away from heat and all sources of ignition.
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).

8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be

	used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White to cream-coloured granular powder.
Odour	Mild odour.
Decomposition Temperature	> 149 °C
Melting Point	200 °C
Solubility in Water	Soluble.
Solubility in Organic Solvents	Insoluble in diethyl ether, acetone, petroleum solvents, aromatic hydrocarbons, esters; practically insoluble in animal and vegetable oils and chlorinated hydrocarbons.
Specific Gravity	1.26-1.34 (water = 1)
pH	pH 4.5 - 7.9 (4% solution)
Viscosity	21.6 - 24.0 cps
Volatile Component	<5 %w/w
Flash Point	> 113 °C (CC); 79 °C (OC).
Flammability	Combustible.

Auto-Ignition Temperature	230 °C
Explosion Properties	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Maximum explosion pressure: 78 psi.
Molecular Weight	100,000 (Approx.)
Softening Point	~200 °C
Other Information	Refractive index: 1.49-1.53

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Light sensitive.
Conditions to Avoid	Exposure to light may affect product quality, heat, flame, sparks, or other sources of ignition, incompatible materials, dust generation.
Incompatible Materials	Acids, alkalis, oxidizing agents (perchlorates, peroxides, nitrates, chlorites and hypochlorites, etc.), reactive metals (sodium, calcium, zinc. etc.), sodium or calcium hypochlorite, phosphates, materials reactive with hydroxyl compounds, furfural alcohol, silver compound.
Hazardous Decomposition Products	Acetaldehyde, crotonaldehyde, acetone, acetic acid, formic acid, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Strong oxidising agents, such as hydrogen peroxide or potassium permanganate, will oxidatively degrade the polymer chain, reduce the viscosity and colour to pale yellow or yellow. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive with metals, acids, alkalis.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May cause irritation to the gastrointestinal tract. May be harmful if swallowed in large quantities. May affect behaviour/central nervous system (symptoms may include general depressed activity, altered sleep time, muscle weakness). May also affect blood and metabolism.
Inhalation	Dust may cause irritation to respiratory system. Symptoms can include headaches, sneezing, coughing and breathing difficulties.
Skin	May cause irritation in individuals with sensitive skin.
Eye	May cause mechanical irritation in contact with the eyes, which can result in redness, stinging and lachrymation.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.Polyvinyl alcohol [9002-89-5] is evaluated in the IARC Monographs (Vol. 19, Suppl. 7; 1987) as Group 3: Not classifiable as to carcinogenicity to humans.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Repeated of prolonged exposure to this material may result in irritation to individuals with sensitive skin.

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Serious eye damage/irritation	Not classified based on available information.
Mutagenicity	Not classified based on available information.
Skin corrosion/irritation	Not classified based on available information.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	biodegradation: > 90%/28 d. Readily biodegradable.
Mobility	Further ecologic data: COD: 1.6 g/g
Environmental Protection	Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information	All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural Formula	Empirical Formula: (C2H4O)n. Structural Formula: (CH2CHOH)n.

...End Of MSDS...

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